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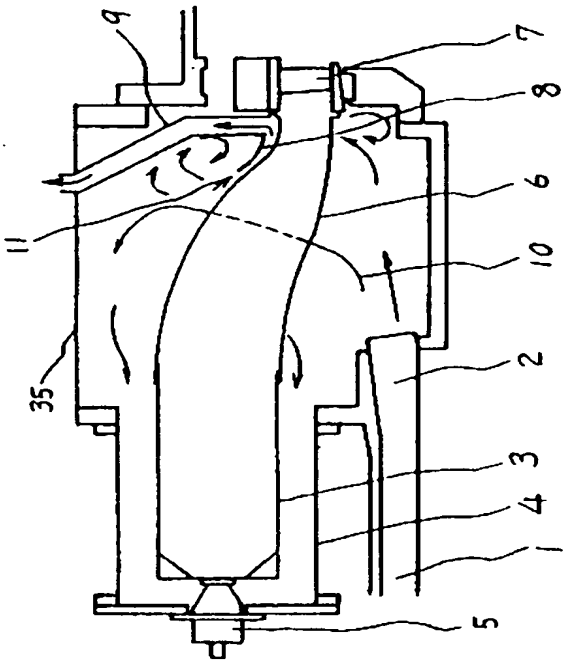
TITLE : CONSTRUCTION TO COOL BURNER TAIL TUBE



ABSTRACT : PURPOSE: To raise heat conductivity of the air flow and cool the tail tube efficiently by flowing the air drawn out of the rear flow of a compressor through the gap formed by the outer circumferential wall provided on a tail tube outer circumference and the tail tube.

CONSTITUTION: An outer circumferential wall 8 is provided with a specified distance to the outside which is near the turbine stationary vane 7 of a tail tube 6, and the outer circumferential wall is provided with a bleed duct, and bleed air is sucked like an air flow 11 from the vicinity of the outer circumferential wall 8, and it is drawn to a gassification furnace from a bleed duct 9. The amount of this drawn air is larger than the discharge air of a compressor by 25%. Accordingly is the suction flow rate is made less than half of the discharge flow rate of the compressor diffuser 2, the total area of the bleed air suction section is large, that is more than 50% of the outlet area of the diffuser 2, and it is easy to equalize the air flow in the passage formed by a tail tube 6 and the outer circumferential wall 8. It is possible, therefore, to equalize the temperature on the whole wall face of the tail tube by installing the outer circumferential wall 8 at the section where the wall face temperature was highest and intensifying cooling by the bleed air flow and cooling the section, where the wall face temperature was relatively low, by the direct flow from the compressor diffuser.